

Data Analytics

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for Medicaid and CHIP

August 2016

Medicaid Overview

Medicaid is a jointly funded state-federal program that provides medical coverage to eligible needy persons.

4.1M
Members



Budget
\$67.9B

(fiscal year 2016-2017)

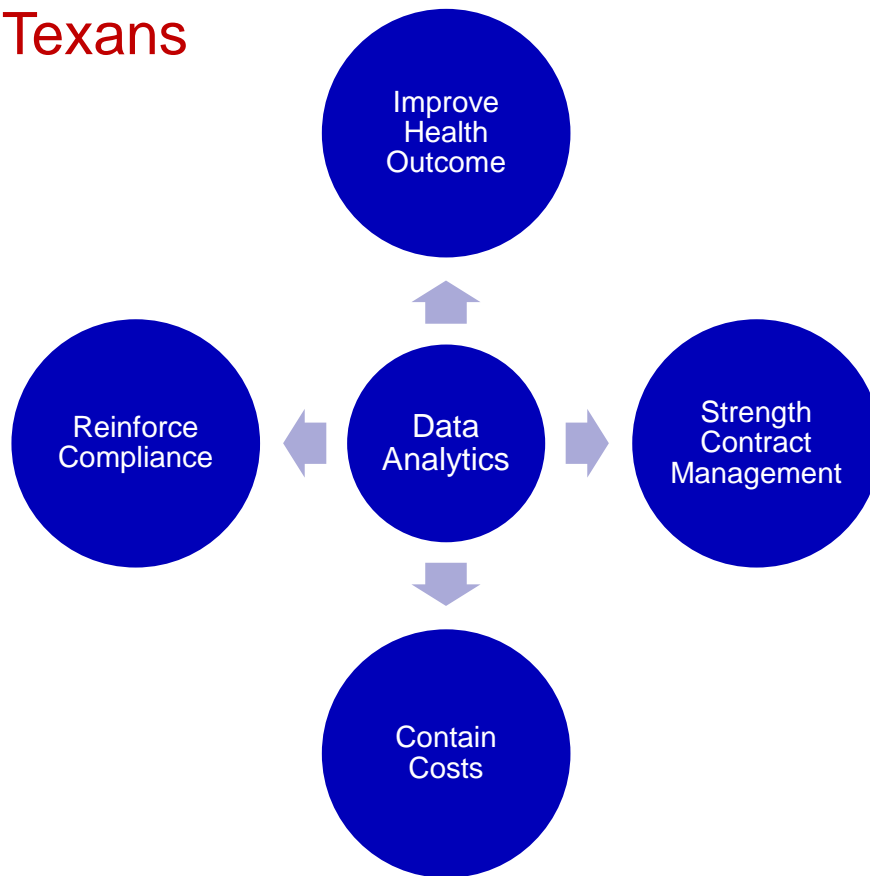


Programs:

- Fee for Service 12%
 - Managed Care 88%
-
- STAR 83%
 - STAR+PLUS 15%
 - STAR Health 1%

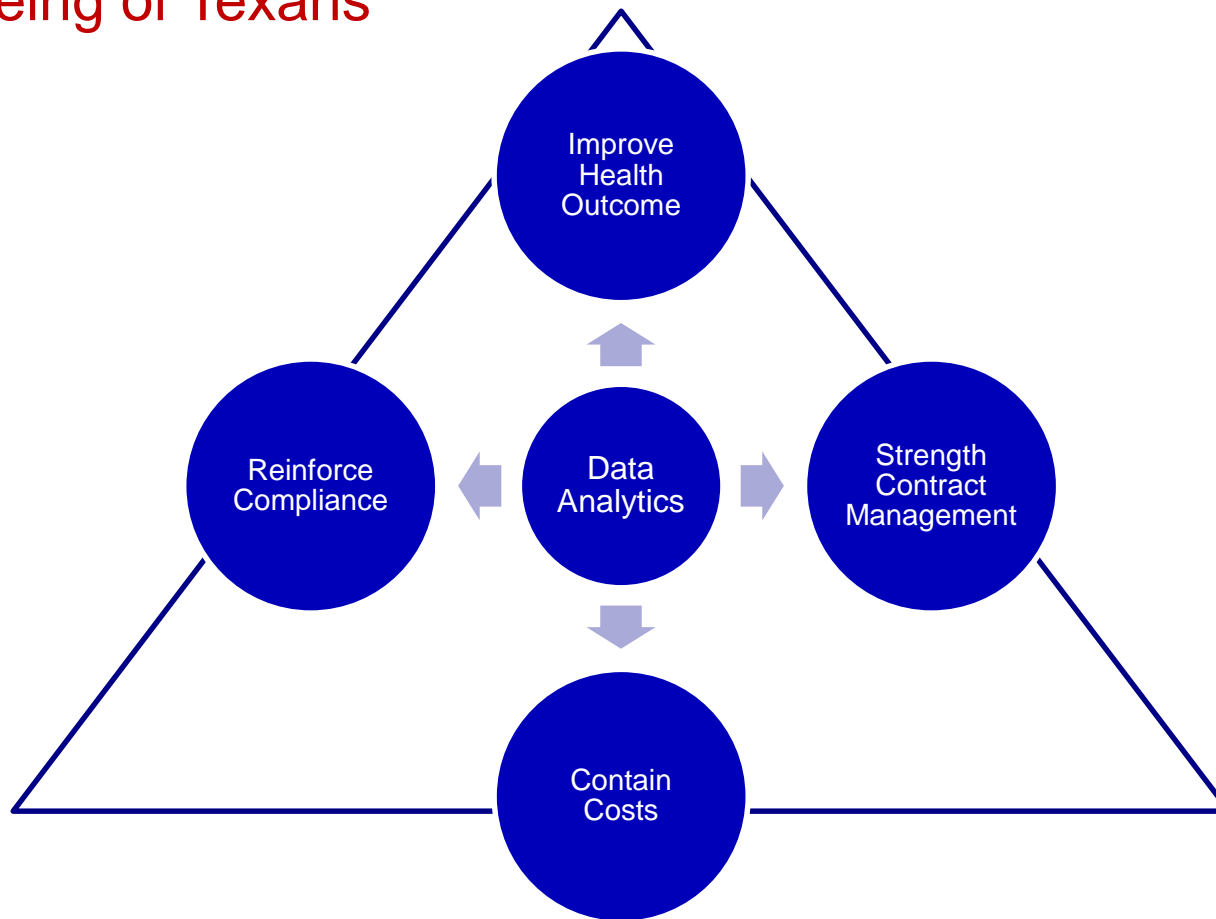
Our Four Key Goals

Mission: To proactively support Medicaid/CHIP programs in making data-driven decisions in improving the health, safety and well-being of Texans



Our Mission

Mission: To proactively support Medicaid/CHIP programs in making data-driven decisions in improving the health, safety and well-being of Texans



How We Do It

- Detect trends and identify anomalies
 - Utilization of services
 - Cost of services
 - Adequacy of provider networks
- Monitor performance
 - Establish performance measurement methodologies
 - Evaluate program performance
 - Provide technical consultation to program areas
- Enhance data analytics infrastructure and capacities
 - Increase data analytics maturity and adopt business intelligence (BI)

Dashboards

Monthly Clients Utilizing Specific Services

Measure Selection

- ☐ Total Paid Amount
- ☐ Total Stays/Visits
- ☒ Avg Monthly Clients
- ☐ Monthly Avg. Cost per Client
- ☐ Avg Cost per Stay/Claim
- ☐ Avg Claims per Client

State Fiscal Year

- ☒ (All)
- ☒ SFY2012
- ☒ SFY2013
- ☒ SFY2014
- ☒ SFY2015

Inpatient STAR 2015

28,156

ED STAR 2015

94,529

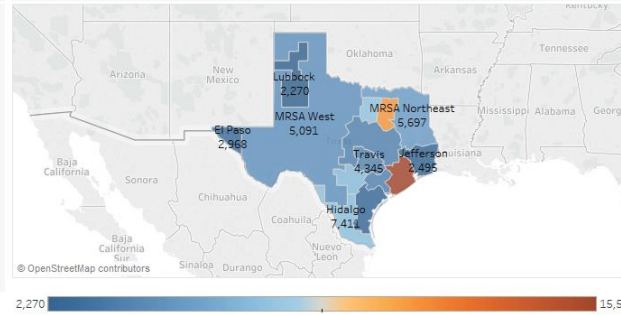
BH STAR 2015Q1

282,285

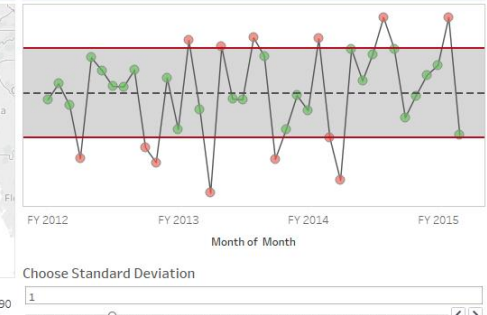
How has Avg Monthly Clients for Inpatient Hospital Stays changed?



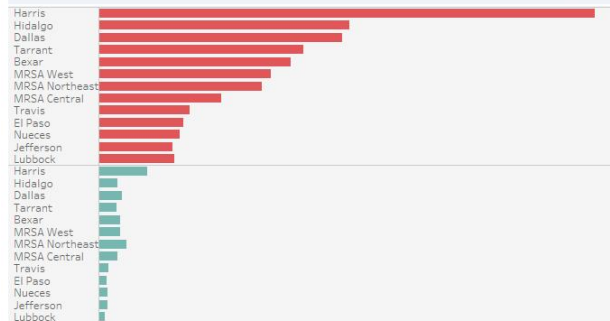
How does Avg Monthly Clients look across the State for ED Visits?



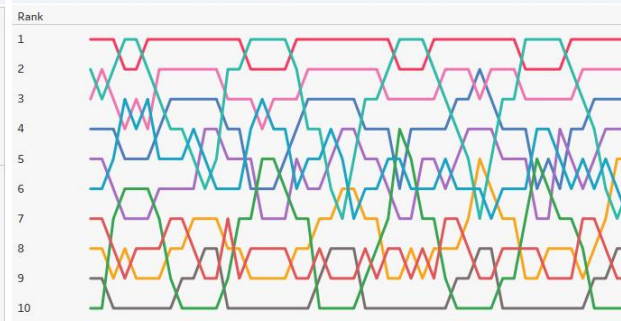
Do Avg Monthly Clients fall within 1 STD of for BH?



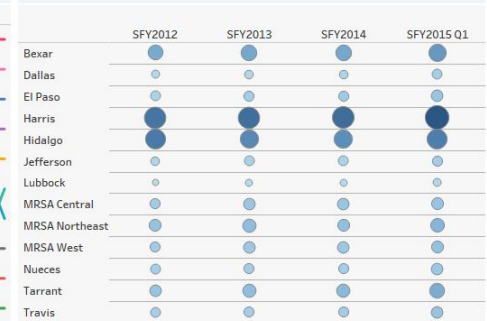
How does SDA affect Avg Monthly Clients for Inpatient Hospital Stays?



How does seasonality affect Avg Monthly Clients for DX Groups in ED Visits?



How does SDA affect Avg Monthly Clients for BH?

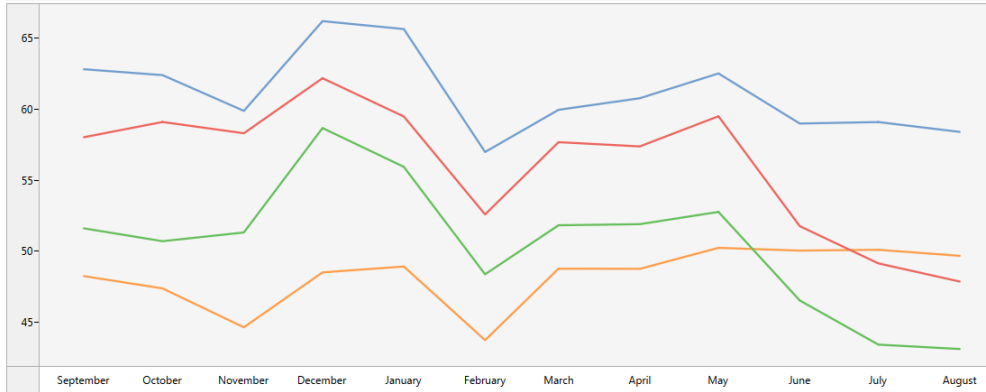


Dashboards

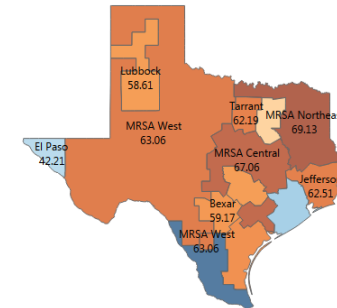
ED Visits

- Measure Selection**
- ☐ Total Paid Amount
 - ☐ Total Number of Claims
 - ☐ Avg. Monthly Number of Clients
 - ☐ Monthly Avg. Cost per Claim
 - ☐ Monthly Avg. Claims per Client
 - ☐ Monthly Avg. Cost per Client
 - ☒ Monthly Utilization per 1,000 Member Months
- State Fiscal Year**
- ☐ (All)
 - ☐ 2012
 - ☐ 2013
 - ☒ 2014

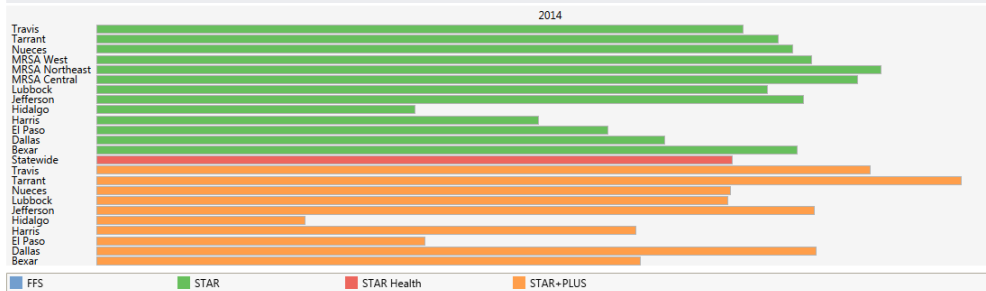
How has Monthly Utilization per 1,000 Member Months for ED Visits changed for SFY2014?



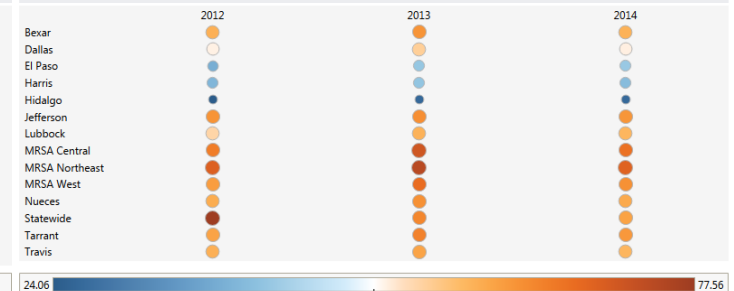
How does Monthly Utilization per 1,000 Member Months look across Texas in SFY2014?



How did SDA affect Monthly Utilization per 1,000 Member Months in SFY 2014



How did SDA affect Monthly Utilization per 1,000 Member Months?



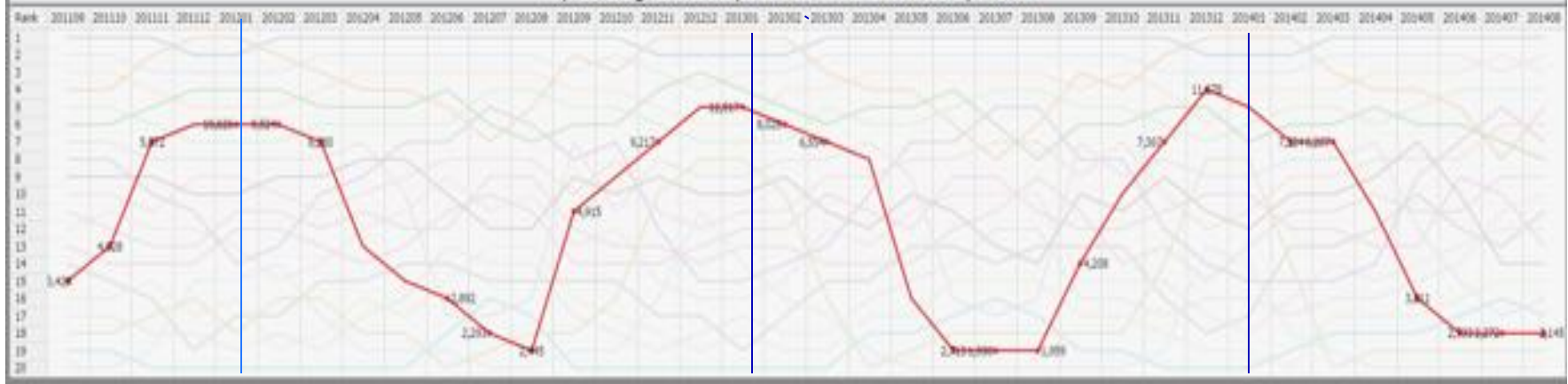
Visits Ranked by Diagnosis

				ED Visits
SFY <input type="radio"/> (All) <input type="radio"/> SFY2012 <input type="radio"/> SFY2013 <input checked="" type="radio"/> SFY2014				
Age <input checked="" type="radio"/> (All) <input type="radio"/> Age <21 <input type="radio"/> Age 21+				
Program <input checked="" type="radio"/> (All) <input type="radio"/> FFS <input type="radio"/> MCO				
Managed Care <input checked="" type="radio"/> (All) <input type="radio"/> FFS <input type="radio"/> STAR <input type="radio"/> STAR+PLUS <input type="radio"/> STARHEALTH				
Rank	DX Group	Description		
1	780	General symptoms	190,058	
2	786	Symptoms involving respiratory system and other chest symptoms	163,347	
3	465	Acute upper respiratory infections of multiple or unspecified sites	147,706	
4	789	Other symptoms involving abdomen and pelvis	144,587	
5	787	Symptoms involving digestive system	100,686	
6	382	Suppurative and unspecified otitis media	94,637	
7	466	Acute bronchitis and bronchiolitis	67,524	
8	599	Other disorders of urethra and urinary tract	61,980	
9	493	Asthma	58,653	
10	682	Other cellulitis and abscess	57,278	
11	462	Acute pharyngitis	55,682	
12	648	Other current conditions in the mother classifiable elsewhere but complicatin..	55,173	
13	784	Symptoms involving head and neck	54,299	
14	959	Injury, other and unspecified	51,497	
15	873	Other open wound of head	49,323	
16	646	Other complications of pregnancy, not elsewhere classified	46,863	
17	079	Viral infection in conditions classified elsewhere and of unspecified site	41,690	
18	724	Other and unspecified disorders of back	41,517	
19	640	Hemorrhage in early pregnancy	36,417	
20	486	Pneumonia, organism unspecified	31,986	

Track Seasonality

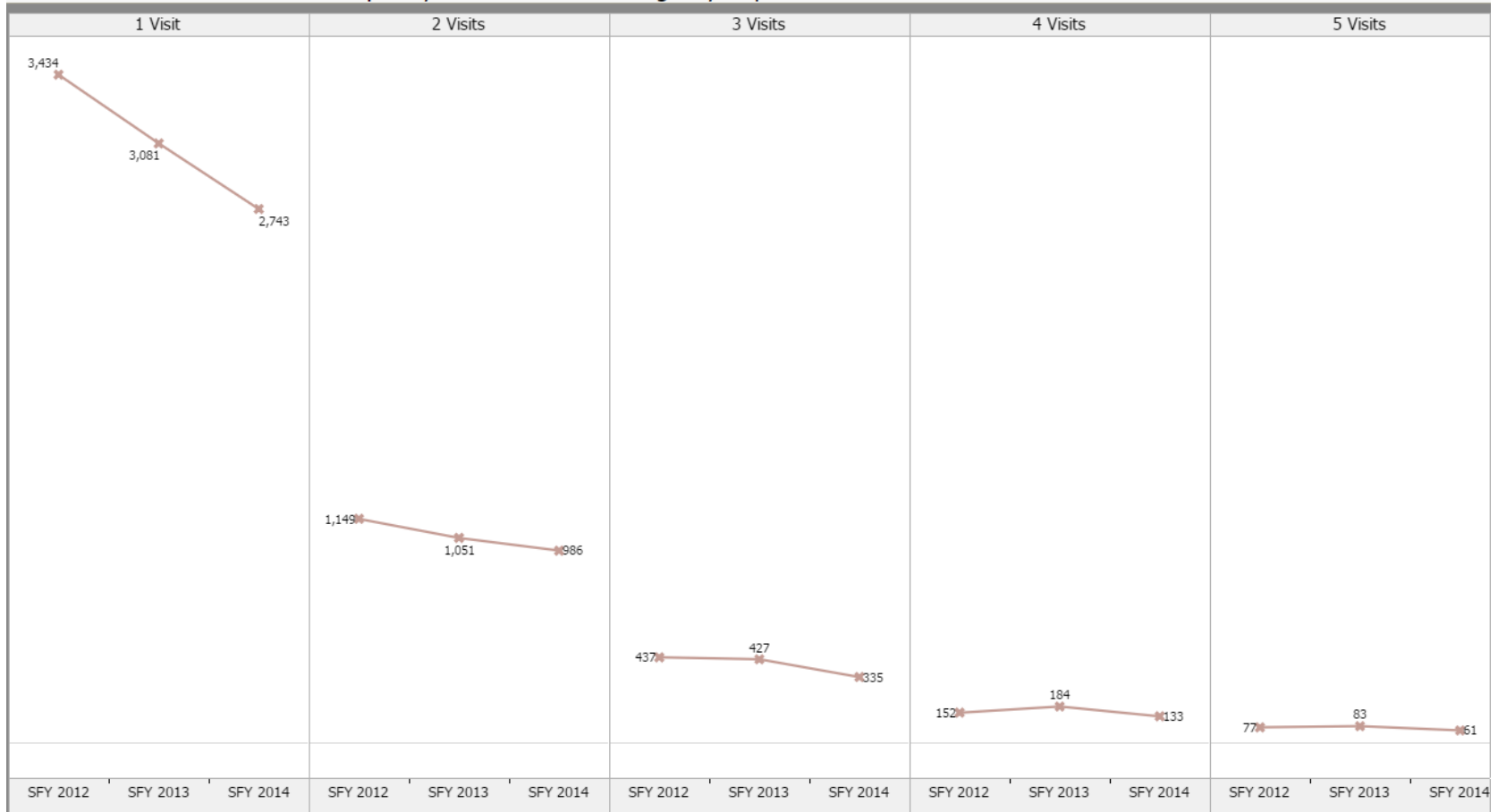
SFY	Rank	Diagnosis	ED Visits	Paid Amount
<ul style="list-style-type: none"> (48) SFY2012 SFY2013 SFY2014 	1	780 General symptoms	475,807	\$175,800,000
	2	786 Symptoms involving respiratory system and other chest symptoms	475,807	\$165,771,000
	3	443 Acute upper respiratory infections of multiple or unspecified sites	463,475	\$155,761,000
	4	789 Other symptoms involving abdomen and pelvis	424,336	\$155,800,000
	5	382 Supportive and unspecified otitis media	394,000	\$144,000,000
	6	787 Symptoms involving digestive system	283,075	\$130,075,000
<ul style="list-style-type: none"> (48) Age <21 Age 21+ 	7	444 Acute bronchitis and bronchiolitis	208,410	\$88,722,560
	8	599 Other disorders of urethra and urinary tract	180,000	\$84,750,000
	9	682 Other cellulitis and abscess	175,000	\$75,000,000
	10	493 Asthma	175,000	\$84,000,000
	11	442 Acute pharyngitis	175,000	\$75,000,000
	12	784 Symptoms involving head and neck	160,000	\$84,000,000
	13	640 Other current conditions in the mother classifiable elsewhere but complicat...	150,000	\$75,000,000
	14	873 Other open wound of head	144,174	\$68,071,000
	15	595 Injury, other and unspecified	140,000	\$64,000,000
	16	646 Other complications of pregnancy, not elsewhere classified	125,000	\$64,000,000
	17	079 Viral infection in conditions classified elsewhere and of unspecified site	125,000	\$75,000,000
	18	724 Other and unspecified disorders of back	125,000	\$64,000,000
	19	440 Hemorrhage in early pregnancy	104,374	\$64,000,000
	20	486 Pneumonia, organism unspecified	100,000	\$75,000,000
<ul style="list-style-type: none"> (48) PPS MCD 				
<ul style="list-style-type: none"> (48) PPS STAR STAR+PLUS STAR+HEALTH 				

Top 20 Diagnosis Groups for ED Visits - Ranked by Month

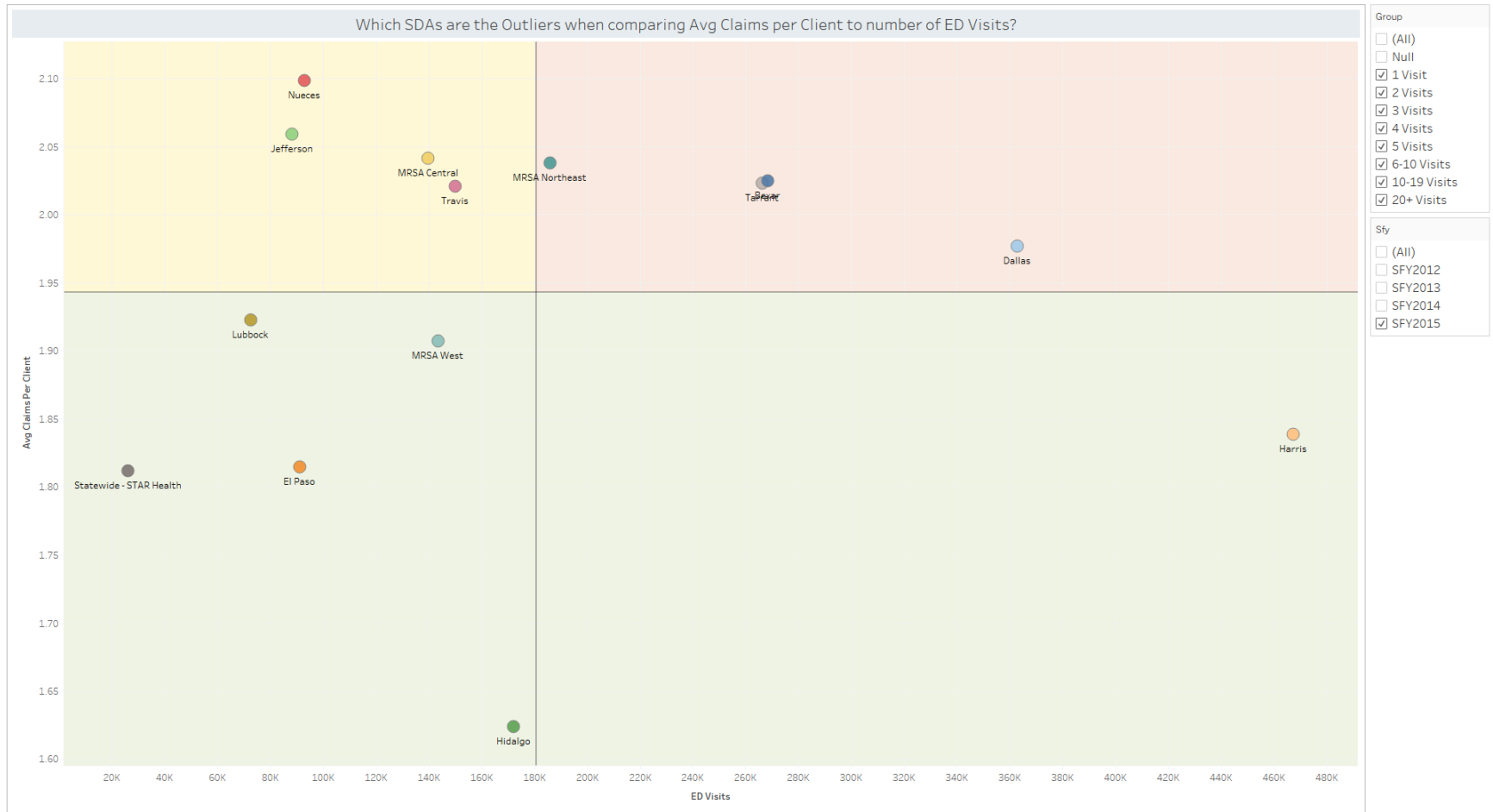


Frequency of Visits

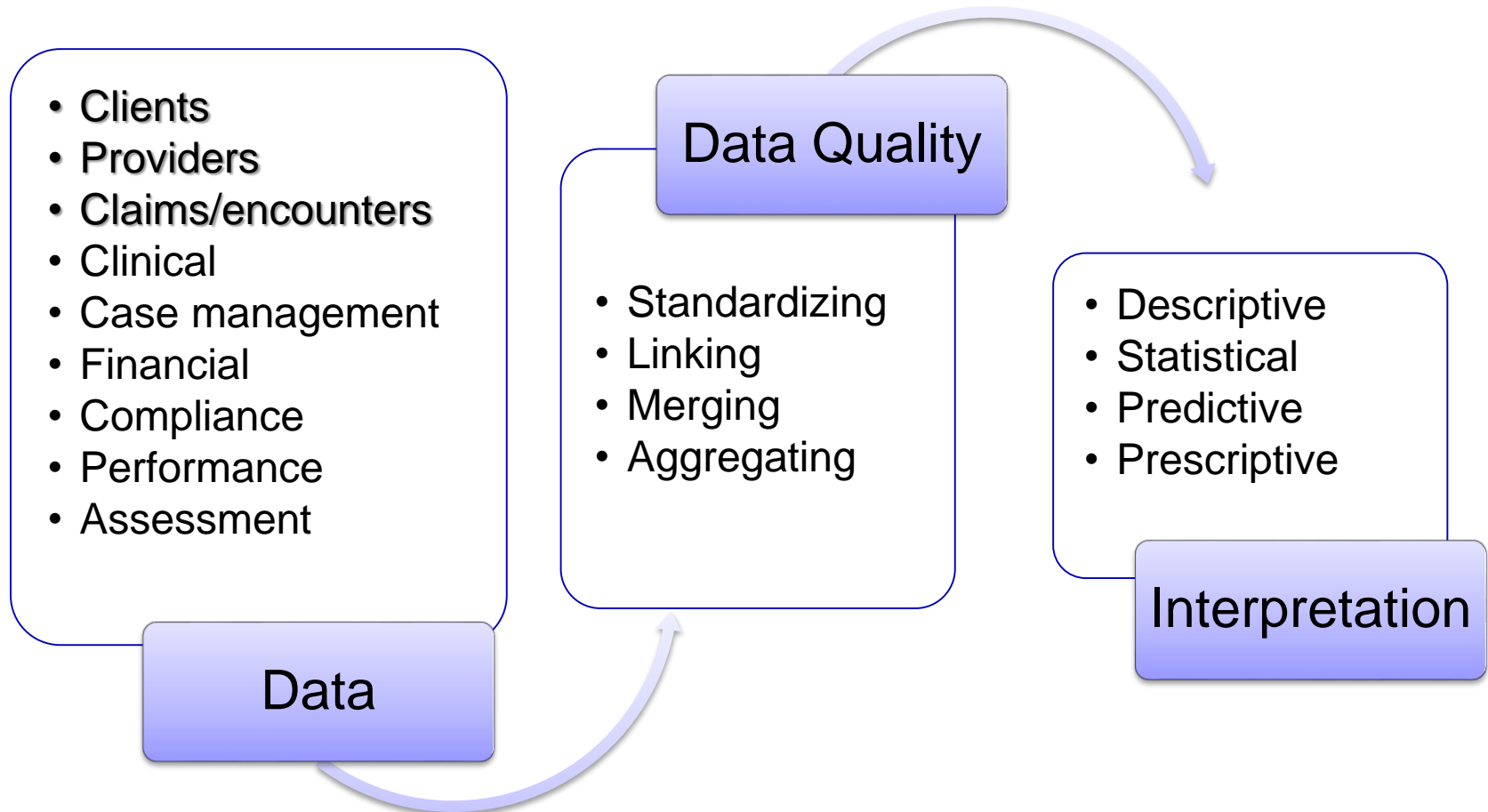
Number of Clients and Frequency of Visits to the Emergency Department SFY 2012 - 2014



Follow Correlations



The Steps taken



Questions

